

## ABOUT THE UNIVERSITY

Savitribai Phule Pune University, formerly University of Pune and University of Poona, is a university in Pune in western India, founded in 1949. Spread over a 411 acres campus, the university is home to 43 academic departments. More than 307 research institutions have been recognised by the Savitribai Phule Pune University for research. These include institutions of national importance like the Centre of Development of Advanced Computing(C-DAC), Inter-University Centre for Astronomy and Astrophysics (IUCAA), National Chemical Laboratory (NCL), National Centre For Cell Science (NCCS), National Institute of Virology (NIV), Gokhale Institute of Politics and Economics (GIPE), Documentation Research and Training Centre (DRTC) of the Indian Statistical Institute (ISI) among others.

## ABOUT MESCOE

M.E.S(Modern Education Society) was established in the year 1999 , with the motto " For the spread of light". M.E.S.C.O.E is affiliated to the Savitribai Phule Pune University and offers U.G and P.G courses in Mechanical Engineering , Computer Engineering, E & TC Engineering. Its mission is to develop industry oriented manpower to accept the challenges of globalization, by promoting value added education through motivated and trained faculty and maintaining conducive environment at affordable cost by promoting Industry Institute Interaction, by involving alumni.

## ABOUT ELECTRONICS & ICT ACADEMY, IIITDMJ

Government of India has instituted four Electronics and ICT Academies with one academy at IIITDM Jabalpur with the primary objective preparing manpower for two important missions - 'Digital India' and 'Make in India'. The Academy aims at the design and implementation of scalable training programmes in niche areas of electronics and ICT for the development of required knowledge base, skills and tools to unleash the talent of Indian population. The Academy at IIITDMJ will partner with IIITM Gwalior, MANIT Bhopal, and IIT Indore run high quality specialized courses for faculty, students and unemployed graduates. In addition, the Academy will conduct customized training programmes and research promotion workshops for corporate sector and educational institutions. The Academy is envisioned to become a central hub of activities on training, consultancy work and entrepreneurship programmes.

### Objectives:

- To build necessary skills for engineering faculty on developing programs using Python for data acquisition using IOT
- Making sense (analysis) of the data and generation of alerts and notifications including dash board visualization.
- By end of the program, the faculty will be able to build end-to-end prototypes for real world problems that require emerging technologies like IOT & Data Analytics for their solution.

### Course Contents:

1. IOT – A game changer
2. Overview of IoT Components & Applications; System Overview
3. Protocols & Challenges
4. Sensors & IOT
5. Python for IOT
6. IOT Gateway
7. Cloud Computing and its role
8. Designing for IOT with Introduction to IIOT
9. Making Sense of Data
10. Analytics for IOT
11. Visualization & GIS Introduction

### Course Dates:

**20<sup>th</sup> Nov - 1<sup>st</sup> Dec, 2017**

### Important Dates:

Last Date of Online Registration: 17th Nov, 2017

For Registration, Email to [iot@mescoepune.org](mailto:iot@mescoepune.org)

### Course Fee/Registration Fee:

**Rs.2200/- PER PARTICIPANT**

### Expected Outcomes:

By the end of the programs, faculty will be able to build end to end prototypes for real world problems.

### Resource Persons:

1. Dr. R.S.Nikam, R.S.LABS - DATA SCIENCE
2. Dr. Uday Wali, C-QUAD - ARTIFICIAL INTELLIGENCE
3. Dr. Pravin Kondekar, IIITDM - ELECTRONIC DESIGN
4. Mr. Sunil M. Desai, MOSCHIP- EMBEDDED SYSTEMS
5. Dr. A. J. Hake, M.E.S.COLLEGE OF ENGINEERING - SENSORS
6. Mr. Basavaraj Hooli, C-DAC - INTERNET OF THINGS
7. Mr. Amit Kudale, C-DAC- INTERNET OF THINGS
8. Mr. Jasveer Singh, SENSE IT OUT - INTERNET OF THINGS
9. Mr. Jayesh Dhamunshe, FIREEYE CYBER SECURITY-PYTHON
10. Mr. Pavneet Singh, VRLAB TECHNOLOGIES -WEB SERVICES

### What the IOTians say:

Consumers and corporations alike are embracing the world-changing impact of the Internet of Things (IoT) on global commerce and lifestyle. Today, the majority of 'significant and disruptive' IoT trends are mainly happening in industrial settings such as manufacturing (Industry 4.0), transportation and utilities. Other IoT projects relate to automotive, retail, consumer IoT, adhoc IoT-enabled smart city projects and so forth.

While IoT is disrupting the industry and the business models, there are several misconceptions about IoT as technology and the philosophy behind it. This two weeks faculty development program is to introduce IoT in the right perspective. It starts with the way of acquiring data in the IoT world, making sense of data using analytics and building intelligence from it. It will be hands on workshop using Raspberry Pi, developing programs using Python programming language for both data acquisition and analytics and visualizing on GIS platforms. The program also introduces some open source IoT platforms and industry demos.

**You can make an online payments to the following bank account:**

Account Name: M.E.SOCIETYS RESEARCH AND DEVELOPMENT ACCOUNT 98100100007367

BANK NAME : BANK OF BARODA

BRANCH NAME : WADIA COLLEGE,PUNE

IFSC:BARB0WADCAM (fifth character is Zero)

MICR CODE : 411012051

CUSTOMER ID: 062299708

ADDRESS : 19,LATE PRIN V.K.JOAG PATH ,WADIA COLLEGE CAMPUS ,PUNE 411001

# REGISTRATION FORM

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Category: \_\_\_\_\_

Qualification: \_\_\_\_\_

Department: \_\_\_\_\_

Organization: \_\_\_\_\_

Mobile: \_\_\_\_\_

Email Id: \_\_\_\_\_

Amount: \_\_\_\_\_ [Online/DD] Date: \_\_\_\_\_

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Bank Name and Branch: \_\_\_\_\_

Registration form available on  
[www.mescoepune.org/iot.pdf](http://www.mescoepune.org/iot.pdf)

# SPONSORSHIP CERTIFICATE

Ms./Mr. \_\_\_\_\_

Designation: \_\_\_\_\_ has been authorized to

attend all sessions of FDP during the period of 20<sup>th</sup> Nov.

to 1<sup>st</sup> December, 2017 at the MES College of Engineering,

Pune.

OFFICE SEAL

Signature  
Head of Institution

# CHIEF PATRON

Modern Education Society,  
Pune - 01.

## PATRONS

**Dr. A. A. Keste**  
Principal, MESCOE, Pune

**Prof. P. K. Jain**  
Director, IIITDM Jabalpur

**Dr. V. N. Raibhole**  
Vice Principal, MESCOE, Pune

**Dr. A. J. Hake**  
Life Member, Modern Education Society, Pune

## CO-ORDINATORS

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## ORGANIZING COMMITTEE

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## FACULTY DEVELOPMENT PROGRAM

ON

## DESIGNING FOR INTERNET OF THINGS

20<sup>th</sup> Nov - 1<sup>st</sup> Dec, 2017



**Organized by:**

Modern Education Society's  
**College of Engineering, Pune**  
(Accredited by NAAC with 'A' Grade)

**Under:**

**E&ICT Academy**  
**PDPM IIT Jabalpur**

An initiative of Ministry of Electronics and  
Information Technology  
**Government of India**

**Venue:**

**MES College of Engineering, Pune**  
(Wadia College Campus)